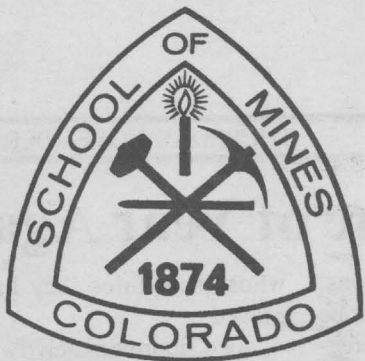




The Oredigger

A Superior Education in Applied Science and Engineering

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Issue 7

MINES GRADUATE DIES IN BLUE ANGEL CRASH

Faisal G. Hashem & Lianne Hill

Lt. Kevin Colling, a graduate of Mines in 1989 with a B.S. in engineering and a year 2000 member of the Blue Angels acrobatic team, was killed in a flying accident with his colleague Lt. Cmdr. Kieron O'Connor on Halloween weekend at Moody Air Force Base, near Valdosta, Ga.

This was the precision flying team's first fatality in more than 14 years and the first crash of any kind in nine years.

After his graduation from Mines, Colling went into the Navy where he served on the *USS Independence*, *USS Theodore Roosevelt*, and the *USS Enterprise*.

Colling flew missions over Bosnia-Herzegovina and southern Iraq and flew for Operation Desert Fox. During the Persian Gulf War he was an instructor pilot at Norfolk, VA.

He last served in Strike Fighter Squadron 106 based at Oceana Naval Air Station, VA.

The Blue Angels were to per-

form Halloween weekend at Moody Air Force Base. As the team was doing its pre-show training, "they were coming in to land, practicing arrival maneuvers, when this happened . . . we don't know what caused it," says Ken Bacon, Pentagon spokesman.

"They came over in a beautiful formation. I think there were six of them [there were 4; there are 6 during shows]. It was probably a half-hour later that we saw the smoke. I didn't hear a crash or anything . . . it was just a big black billowing [fire]" said Beverly Peters, a local resident.

The crash occurred while O'Connor and Colling were attempting to land their two-seater F/A-18 Hornet. The Hornet plowed into a grove of pine trees on a farm near Moody Air Force Base. It was noon; the skies were clear. No others were injured but the two men in the plane.

O'Connor, the pilot of the acrobatic Hornet, was raised in Burtonsville, MD. O'Connor, 35, is survived by his wife and their three

children, Courtney, John, and Kyle, two of whom attend Hellen Carol Elementary School. He was a member of the team since September of 1998. O'Connor and his family lived in Pensacola, Fl. Lt. Kevin P. Colling, 32, grew up in Castle Rock, CO. Colling was a naval aviator, instructor, and was on the F/A-18 as an observer.

Colling graduated in 1985 from Douglas High School, where he was captain of both the wrestling and football teams.

He came to Mines in the fall of 1985 on a football scholarship and graduated in 1989.

In 1990 he was commissioned after attending officer training school in Pensacola.

A few months ago, Colling joined the Blue Angels, the Navy's precision flying team, and was named as a member of the 2000 team in July.

Colling's father, Harold Colling, is an Air Force veteran. Colling is survived by his parents and wife Mardy, and two sisters. Mardy is a professional photogra-

pher and was returning from the Philippines when news of her husband's accident arrived.

"[Colling and O'Connor] are two of the best naval aviators I knew. This is a tragic loss to the families, to the Blue Angels, and to the U.S. Navy," said Cmdr. Patrick Driscoll, flight leader of the Blue Angels. Driscoll served with both Colling and O'Connor and flew off aircraft carriers with them.

The Blue Angels are based in Pensacola, Fla. They fly six F/A-18 McDonnell-Douglas Hornets that are designed for the execution of high-speed acrobatic maneuvers.

The F/A-18s have a stronger structure and double the fuel capacity of the formerly used Northrop YF-17. The Hornets are capable of speeds up to Mach 1.8 and altitudes of 49,000 feet. However, the planes used by the Blue Angels are the oldest in the Navy's fleet still in use.

The Blue Angels were formed in 1946. Since then, they have performed for more than 322 million people.

During this time, they have had only 25 deaths, including Colling and O'Connor, during either shows or training exercises.

Colling was named outstanding pilot of the year in the *Atlantic Ocean*, 1998. "His love was flying," according to Judy Crenshaw, a Castle Rock councilwoman who has known Colling since he was a small child. "His whole life was based on flying and he got all the way to the top."

"Everyone was really excited this year when they found out he made the team. He was an outstanding kid and none of it went to his head at all," said Colling's aunt, Brenda Colling.

Colling's uncle commented he was a "hell of a kid, with a great sense of humor."

Colling and O'Connor were two of the "best and most distinguished aviators in the Navy," said President Clinton.

"They were dedicated to the U.S. Navy and our prayers and our thoughts are with the families" said Cmdr. Driscoll.

CSM to Host Space Resources Center

A staging area for miners during the 1840's gold rush, Golden recently served as the launch site for a new wave of prospectors - space miners - who convened the first Space Resources Roundtable Oct. 27-29 at CSM. To further their goals, the roundtable participants decided to continue meeting and have chosen CSM to serve as the center for the program, according to Mike Duke of NASA's Lunar and Planetary Institute.

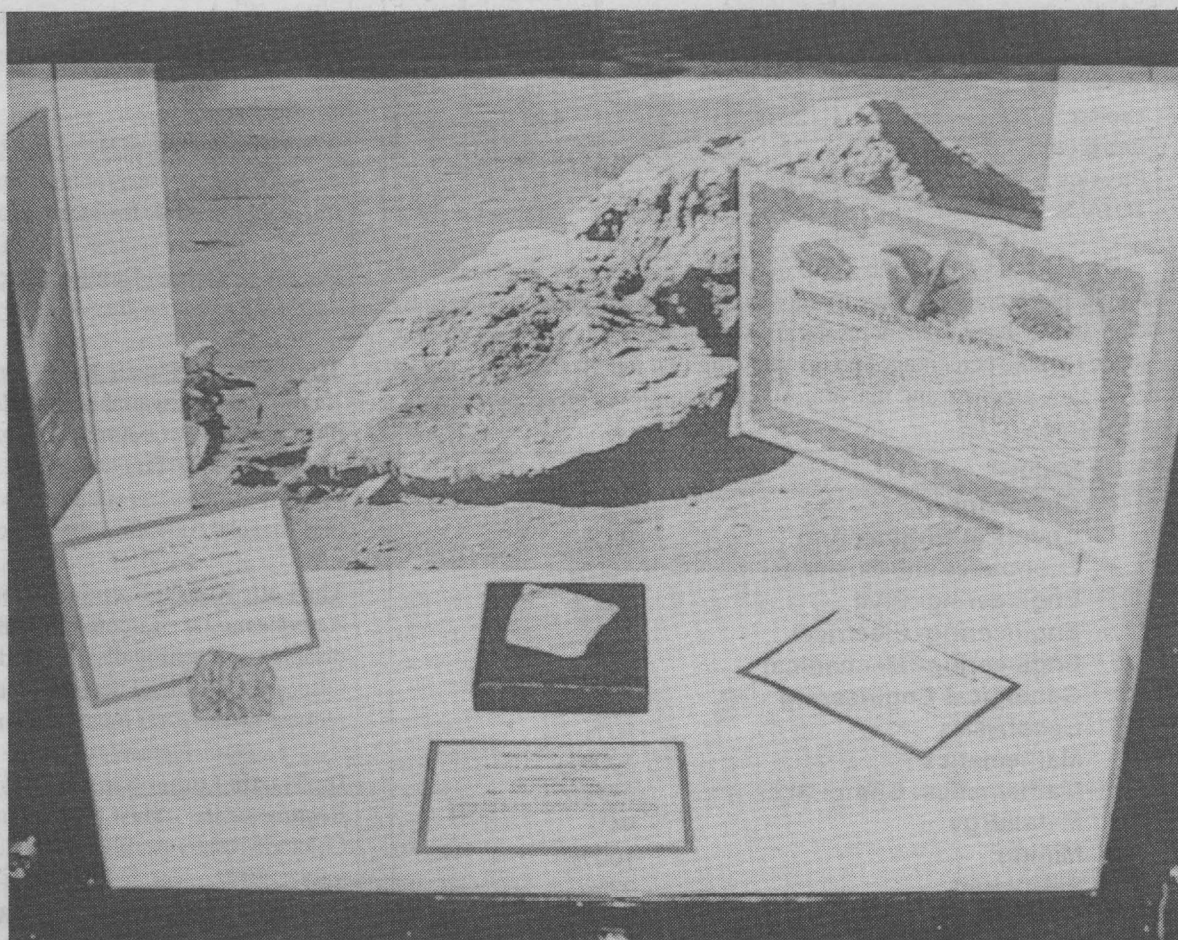
Not only are these scientists and engineers contemplating the mining of asteroids and other heavenly bodies, they are boldly brainstorming space tourism and other futuristic ways of using the resources of the new frontier.

During the roundtable, scientist and former Apollo 17 astronaut Harrison "Jack" Schmitt advocated mining the moon for helium-3. He predicts more precise tolerances than is possible on Earth, due to its gravity. Other pos-

sibilities include designing water-rockets, i.e., hydrogen- and oxygen-powered spacecraft, that could refuel themselves with asteroid resources and operate in deep space indefinitely, and adopting standards for spacecraft so that shippers could develop payloads independent of the type of spacecraft.

The meeting also produced the idea of developing a lunar solar power system, consisting of pairs of bases on opposing limbs of the Moon that capture sunlight, convert solar power to microwaves, and beam the power to receivers on Earth called "rectennas."

The Space Resources Roundtable will take several organizational steps in the next few months, including establishing a Web site, appointing a steering committee, and developing an action plan, according to one of its organizers, CSM Associate Research Professor Bill Sharp.



Martian Meteorites: A display in the Arthur Lakes Library shows samples of Martian rocks and a stock certificate issued in 1928 for a mining company promoting development of natural resources from space. Recent developments at CSM could make space mining a reality.

Photo by Chad Goerzen

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Life After Mines

David Bonfoey

Colorado School of Mines students have many options after graduating. Some students will go on to work after getting their bachelors degree and some go on to graduate school. Most students who obtain job offers get them through the CSM Career Center.

The Career Center's mission is to provide educational programs, resources and services so that CSM students can organize information learned about careers, industries, jobs, work environments and their own unique sets of knowledge, skills, interests and values.

The Career Center offers many services including job listings, resume referral, on-campus interviewing, resume critiques, letter critiques, career advising, publications, shadowing programs, internships, cooperative education (coops), a career library, and the annual Career Day each fall. Using these services, the Career Center helps to place the majority of the job-seeking graduates.

The table below shows the placement of BS students. The year is considered to be June of 1998 to May of 1999 (and likewise for June 1997 to May 1998).

Majors in Strongest Demand (by # of companies)		
	'99-'98	'97-'98
Mechanical	78	82
Electrical	57	70
Comp. Sci.	43	45
Chemical	40	62
Majors in Strongest Demand (by interviews/student)		
	'99-'98	'97-'98
Petroleum	10.2	14.0
Chemical	8.6	10.4
Mechanical	7.9	8.0
Comp. Sci.	6.8	8.6

The table below shows the number of graduates from each major and the total number of offers provided. The data runs from June 1998 to May 10, 1999. Military, overseas and Alaska offers are not included in the average annual offers.

Department	# of Graduates	# of Offers	Average Offer	% Placed
Chemistry	6	2	\$38,100	83%
Chemical Engineering	84	74	\$46,028	81%
Economics and Business	20	19	\$43,182	70%
Engineering- Civil	50	65	\$37,095	88%
Engineering- Electrical	49	56	\$45,060	92%
Engineering- Mechanical	77	58	\$43,905	64%
Geological Engineering	25	8	\$39,484	68%
Geophysics	11	6	\$45,817	64%
Mathematics	4	NA	NA	75%
Mathematics- Comp. Sci.	33	30	\$43,441	76%
Metallurgy	34	12	\$44,719	85%
Mining	22	21	\$39,950	86%
Petroleum	24	15	\$48,040	83%
Physics	18	2	\$46,800	78%
TOTALS	457	368	\$43,061	78%

The Career Center follows up on these initial results and looks into student placement after six months (i.e., every November). The table below shows the placement results after being out of school for six months. Notice that the percentages go up, showing that not all students get a job before they graduate and that almost all are employed by six months after graduation.

Major	% Placed
Chemistry	100%
Chemical Engineering	93%
Economics and Business	100%
Engineering- Civil	100%
Engineering- Electrical	100%
Engineering- Mechanical	91%
Geological Engineering	78%
Geophysics	90%
Mathematics	100%
Mathematics- Comp. Sci.	97%
Metallurgy	94%
Mining	100%
Petroleum	92%
Physics	88%
TOTAL	94%

This fall has been very busy for the Career Center and its registered participants. There have been 124 companies from fields such as petroleum, energy, consulting, aerospace, steel, and mining looking for full-time, summer and cooperative education positions. (For a complete listing see the Career Center web page.) Some graduating seniors have had as many as 15 interviews. 21 International companies also were on campus seeking employees.

Registration: It's That Time of Year Again

Matthew Crill

As students once again choose classes for next semester, being able to register online is a welcome change from recent years.

Many students remember the long lines that would stretch outside of the registrar's office and the difficulties involved in getting their schedule set up the way they wanted.

The changes in the registration process began in the field session of 1999 and have made a great impact, especially within the registrar's office.

"Having students do their own schedules allows us to operate normally during the busy registration periods," Susan Smith, the head of the registrar's office, stated.

Smith specifically noted that during these registration periods they don't have to hire outside help

and normal business operations, such as performing audits, can be done. The move towards online registering was something that many students wanted and it has provided them with more options, such as greater ease in choosing and changing classes, being able to view transcripts, and seeing their account summary.

While the online registration has made life easier for everyone on campus, there are still improvements that can be made to the system.

One addition that will be made is a new program called Web for Faculty. This will allow the faculty to provide students with a code that can be used to register online after the students have cleared their schedule with their mentor.

The current system requires the faculty members in certain departments to lift the holds on students

whose schedules they have approved.

Also, approximately 10 percent of the students run into problems with not having the necessary prerequisites and co-requisites for certain classes. This system will help solve this problem by allowing better on-line connections between the students and the faculty members.

In order to better handle the online registration process the main piece of advice offered by Susan Smith is to "know your pin number."

Smith also suggests that students take time to look at all the information offered online. Most problems and questions students run into with the class registration process can be answered by looking on the web or e-mailing the registrar's office.

Financial Aid Office Announces Available Scholarships

National Academy for Nuclear Training Scholarship

Requirements: US Citizen or US National, considering a career in nuclear power industry such as nuclear, chemical, electrical, power generation health physics; free of post-college obligations (e.g., ROTC or NUPOC) or military service, minimum GPA 3.0 as of Jan. 1, 2000; current soph, jr, senior with at least one but no more than 3 academic years of study to graduation. More information about the nuclear power industry is available at www.nei.org. APPLICATION DEADLINE - February 1, 2000.

SME Coates, Wolff, Russell Memorial Mining Industry Scholarships

Requirements: Resident of Wyoming, current sophomore, junior, senior, minimum 2.25 GPA, 3 awards at \$1,000 each for 1999-2000. An essay on "The importance of Mineral Extraction to the State of Wyoming" with minimum of 250 words. APPLICATION DEADLINE - December 1, 1999.

Concrete Research and Education Foundation (ConREF) of Aciinternation

Requirements: any student completing studies toward a bachelor degree or one who has received a bachelor degree by summer of 2000. Proficient in English language. APPLICATION DEADLINE - January 14, 2000.

Schwing America Concrete Scholarship

Requirements: Civil Engineering, undergrad, senior for 2000-01 status. APPLICATION DEADLINE - January 14, 2000.

American Society of Heating, Refrigerating & Air-Conditioning Engineers, Inc. Scholarship-ASHRAE

Requirements: for graduate students involved in HVAC&R field or in related areas. See bulletin board in financial aid office for more details or www.ashrae.org and click on Student Activities & Scholarships.

Society of Women Engineers Scholarship

Application are on line at www.swe.org.

The Society of Plastic Engineers The SPE Foundation

Requirements: available to students majoring in or taking courses that would be beneficial to a career in the plastic industry. (example: chemistry, physics, chemical eng. Mechanical eng., industrial eng. And business administration. Financial need is considered, one year award and may be re-awarded for up to 3 additional years. For more information and the "on line" scholarship application please visit www.4spe.org or come to the Financial Aid Office for the needed materials. APPLICATION DEADLINE - December 14, 1999.

The Lotte Kaliski Foundation for Gifted Children, Inc.

Requirements: Talented or gifted - Mathematics, Science, Other Educational Achievements; physically disabled or learning disabled, under age 26, social consciousness and responsibility, goal directed, motivation to succeed, financial needs. Submit a short profile to the Financial Aid Office by February 1, 2000. The grant request by the FAO must be submitted by March 1.

Dr. Martin Luther King, Jr. Scholarship

Requirements: Must have financial aid as determined by the financial aid office, cum GPA at least 2.5, Colorado residents, full time students. APPLICATION DEADLINE - December 1, 1999.

White Rose Scholarship Foundation

Requirements: US Citizen, Demonstrated financial need, 3.0 GPA. More information available on the bulletin board in the Financial Aid Office. APPLICATION DEADLINE - January 15, 2000.

NAWIC (National Association of Women in Construction)

Requirements: Applicant must be currently enrolled full-time in a construction-related degree program, and have at least one term of study remaining in a course of study leading to a degree or an associate degree in a construction-related field. GPA of 3.0 or better. Awards range from \$500 to \$2,000. Applications at www.fastweb.com.

New College Performance Requirements

The Colorado Commission on Higher Education unanimously passed new college performance requirements on Thursday, Nov. 4 that require increased amounts of Internet and video classes, smaller classes, standardized assessment tests, among twenty other requirements, citing a Dec. 1 legislative deadline.

College accountability was mandated in a new state law signed this past summer by Gov. Bill Owens.

Other requirements intended to improve college responsibility and performance include standardized tests following students' sophomore and senior years. These tests would be comprehensive and would indicate a student's knowledge of their field of study.

Individual colleges will decide if it is necessary for students to pass

these tests in order to graduate.

Another goal of the legislation is to graduate students punctually, usually within four years, after completing 120 credit hours.

Majors at Colorado School of Mines typically require completion of between 136 and 150 credit hours for students to graduate.

Freshman and sophomore classes will have to average thirty students under this legislation. Average class sizes at CSM are 35 students.

Internet and video classes will ultimately comprise of half of college's course offerings.

Concerns from colleges include who will finance new faculty hires and classrooms to accommodate 30-student classes and who will pay for the standardized tests. The possibility of colleges teaching to these new tests is also a primary concern.



The Latest in Snowmobiles and Band Shells

Colorado School of Mines' Career Center hosted the first Option Project Showcase on Tuesday, November 2 from 6:00 to 9:00 pm in the Student Center Ballrooms.

The purpose of the event was to showcase current student projects for local employers and members of the community.

A newly designed snowmobile, highway sound barriers, and de-

signs for a band shell in Golden's Parfet Park were only a few of the featured projects on display Tuesday evening. Students were available to answer questions and discuss their projects.

This event focused on undergraduate student projects representing Engineering Practices Introductory Course Sequence (EPICS), the academic departments and stu-

dent organizations.

The Option Project Showcase serves CSM students by illustrating the types of projects undergraduate students complete through the various disciplines on campus.

The showcase also serves local industry and business by demonstrating students' engineering and scientific capabilities.

CSM Community Art Show

Plans are underway for a CSM community art show in the spring. The show will be open to all faculty, staff, students and spouses.

If you are an artist, this is your chance to show off your work to the Mines community.

If you are interested in participating, please contact Maureen Keller by Dec. 1, e-mail: mkeller@mines.edu, subject ART SHOW, fax: 303-273-3583, address: 1600 Arapahoe St., Golden, CO 80402.

Include your name, medium, approximate size of art, and approxi-



mate weight if your medium is sculpture. Also, include your telephone number, e-mail address and fax number.

Also indicate which category of entrant you are (faculty, staff, student or spouse).

The planning committee needs your response in order to determine the level of interest on campus, so please respond even if you have already responded to Marsha Konegni in an earlier "Campus in Brief" survey.

Myers Briggs Testing Profiles Mines Students

Faisal Hashemi

"The intricacies of the human mind are mapped by many tests," explains Mel Kirk, student counselor at Colorado School of Mines.

The testing currently being administered by the counseling office at CSM is a psychological profiling known as the Myers Briggs test. This test does not test for what is wrong with a person, or what is right, but simply the characteristics with which one operates intellectually.

The Myers Briggs test was pioneered by Elizabeth Briggs who worked along side Carl Jung to develop a set of standardized personality characteristics for psychological profile testing.

The test has been in use since the 1940s. It profiles four major personality characteristics attributed to people's psychological methodologies.

These four resultant characteristics are presented in dichotomy.

They are introvert versus extrovert (I versus E), sensing versus intuitive (S versus N), thinking versus feeling (T versus F) and judging versus perceiving (J versus P).

The "introvert versus extrovert" profiles a person's preference to work alone or with others.

The "sensing versus intuitive" profiles the generation of information whereas the "thinkers versus feelers" shows how a person reaches a conclusion from such information.

"Judgers" typically prioritize well and "perceivers" typically see the macro-perspectives and then del-

egate the issues to the "judgers."

Each person exhibits all of these characteristics to some extent, but will naturally gravitate towards a particular profile.

Perceivers for example are very intuitive by nature.

The degree of one's extroversion versus their introversion varies from person to person. Some introverts

can, at times, be extroverted, with ease while others must expense a greater amount of energy to deal effectively with groups.

The Myers Briggs test is currently the most popular of psychological profiling tests, possibly because it does not test for negative behavior.

It functions simply to assist the

person in focusing on major psychic mechanisms that affect their intellectual and emotional methodology, or how one approaches life's daily challenges.

The goal of testing at Mines is to help students to realize their study and work processes and how they can be improved.

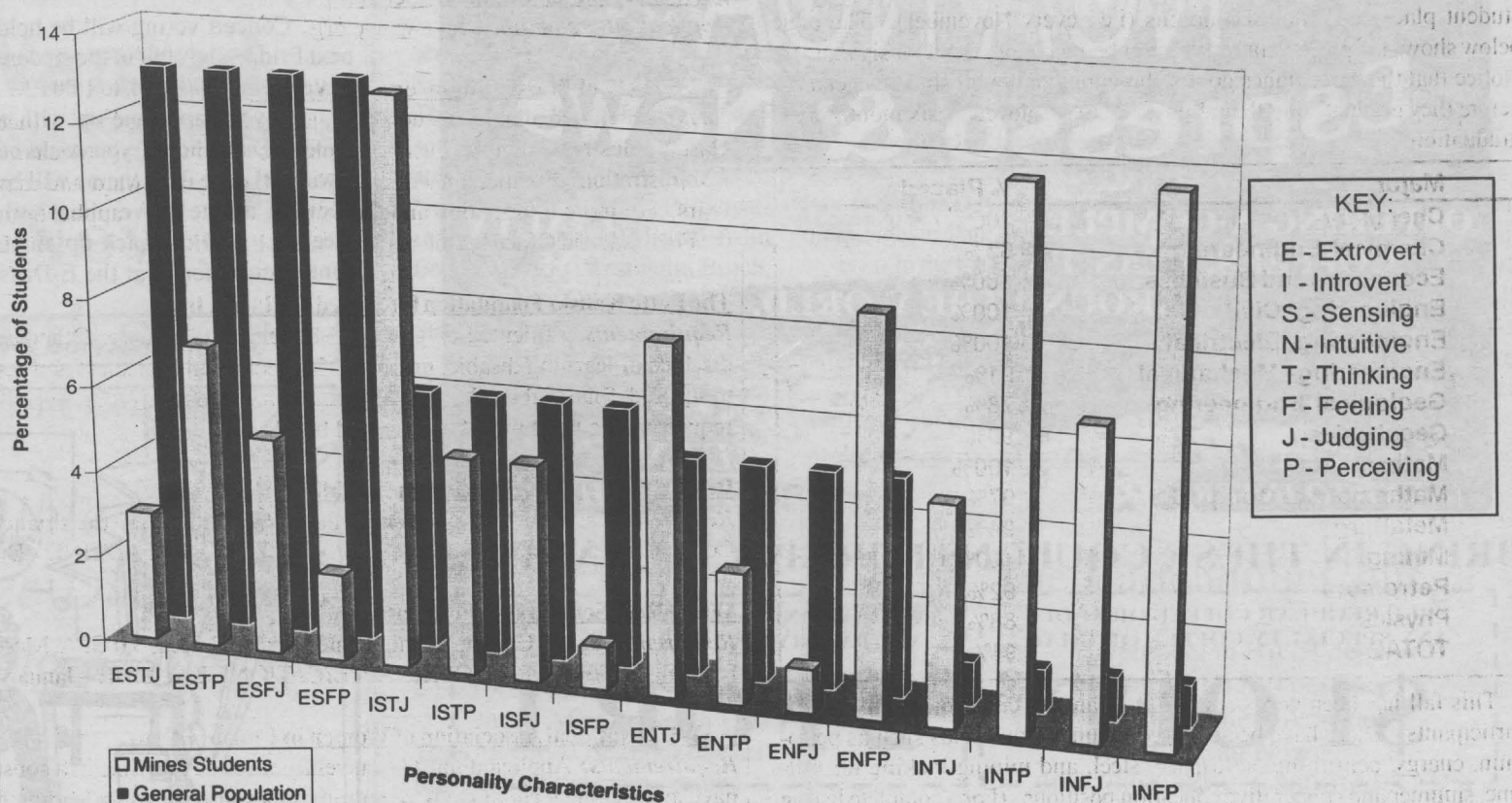
The results of the test on Mines'

students indicate the student body as a group is well balanced in terms of the various dichotomies.

CSM students run the gambit of personality types, despite other perceptions. "At Mines," says Mel Kirk, "we celebrate the differences."

To take the Myers Briggs tests, contact student development and academic services at (303)-215-3377.

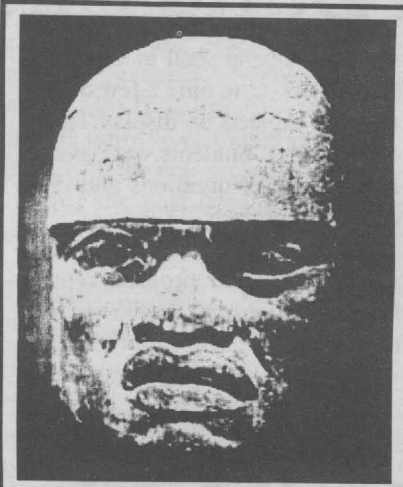
MYERS BRIGGS TEST RESULTS



Reivew of "Lies My Teacher Told Me"

Will Sisk

Let me think back to what I can remember about high school history class. It consisted mostly of my teacher telling us to read the book, or worse yet giving us an even more dumbed-down version as notes on an overhead transparency. This is exactly the scenario that James W. Loewen's *Lies My Teacher Told Me* is all about correcting.



This figure carved by the Olmecs of Southeastern Mexico displays distinctly African features.

Loewen starts off at the "beginning" of American origins by combating the falsehood of Columbus' "discovery" of America with evidence of voyagers from Africa, Asia, and N. Europe to the "new" world thousands of years ago. Moving along to cannibalism by European settlers of putrefied Indian corpses in Virginia, and dishonesty by the Pilgrims to their fellows on the Mayflower. Loewen enlightens while shocking the reader with information that would never be found in a textbook. Eye opening would really be an understatement when describing these revelations about "our forefathers."

He goes on to discuss in depth such topics as invisibility of racism in textbooks, historical inaccuracies perpetuated by popular opinion

rather than historical evidence, and other problems associated with serving up history as fact rather than a matter on which there may be debate. He demonstrates that vague or weak writing can mislead students or imply undocumented opinions.

One of the most interesting insights into written history is his evaluation of impartial writers and the pervasiveness of racism in textbooks. For instance, there is strong evidence that African sailors

reached the ancient Mayans and even established trading with them. But this is not mentioned in any of the twelve books Loewen surveyed. African American children grow up "learning" that their race really didn't accomplish anything, and consequently they are inferior to whites. The same thing goes for all races and ethnicities other than white. The books talk about the great accomplishments of European sailors, but fail to mention the advanced Arab technology and African know-how that made "great European voyages" possible.

Although there is no way a single book can fix every untruth printed in our textbooks, *Lies* real aim is just to get students (and adults, for that matter) thinking about what they were or are being taught and evaluate it critically. In essence, the goal is to prompt the reader to learn how to think, not just accept the "historical facts" as they are given. I liked this book for precisely that reason. By the way, this book could go hand in hand with your course as it is much more startling than Landes' book, *Wealth and Poverty of Nations*.

The Lapin Agile: Where everybody knows your name.

Brett Maughan

Finally, the question has been answered. What would *Cheers* have been like had it been set in France in 1904? All the elements are there. The befuddled bartender, the sexy waitress, the alcoholic regular, the wild haired intellectual, and the suave ladies man. Well, all the elements may be a little muddled, but they are still there. However, that probably isn't exactly what Steve Martin had in mind. What he did have in mind, however, was a fictional meeting between two of the brilliant intellects that shaped the 20th century, Pablo Picasso and Albert Einstein, set against the

backdrop of the Lapin Agile, an actual bar in Paris. In fact, the Lapin Agile, and the characters that fill it in this 80-minute, single act show, is drawn directly from Picasso's life and paintings.

Although Steve Martin has written plenty of material for the big screen, including *The Jerk*, *Roxanne*, and *L.A. Story*, this is his first venture into writing for the stage. Nevertheless, *Picasso* has received high acclaim in the theatre community. The show is infused with classic Steve Martin humor at an intellectual and cultural level a step above many current stage comedies.

MLT PRESENTS

Picasso at the Lapin Agile
A Play by Steve Martin

The Mice Have Been Drinking Again
A Play by Cleve Haubold

Friday and Saturday 7:30 pm
Metals Hall

NSBE Fulfilling the Mission

Sharee Robertson

The Colorado School of Mines-National Society of Black Engineers(CSM-NSBE) organization are achieving their mission statement. NSBE's missions statement is to increase the number of culturally responsible black engineers who excel aca-

demically, succeeding professionally, and positively impact the community by doing the following. First, the organization not only recruits students in the organization, but they help them to succeed at Mines by providing them with a program called Academic Excellence. This pro-

gram consist of workshops such as resume writing and how to study better. In addition, there is a study session every Wednesday from 7-9 p.m. for everyone to either work or get help with their homework. Second, the NSBE organization has an alumni extension, which helps to fulfill

the second part of the mission. The alumni extension is another integral part of NSBE, which helps students to continue networking with others. Finally, CSM-NSBE feels that the last part of the mission, to positively impact the community, is the most important. The members

achieve this by tutoring elementary kids in science and mathematics. In addition, the CSM-NSBE chapter will be participating in the 1999 Fall Classic Special Olympics, Saturday, November 13, 1999. The proceeding supports the fact that the CSM-NSBE is successful in their mission.

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Espresso & News

OFFERING A COMPLETE RANGE OF SPECIALTY COFFEES, TEAS, PASTRIES, AND MORE AROUND THE WORLD.

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FREE REGULAR COFFEE OR \$1 OFF ANY SPECIALTY COFFEE OR CHAI. \$1 OFF	TWO FOR ONE SPECIALTY COFFEE OR PASTRY OF YOUR CHOICE. 2 FOR 1
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At Canyon Point Plaza in Golden
Next to the intersection of Washington St and Highway 93

E-Days Concert

Concert voting will be held next Friday, the 19th in the student center from 11:00 A.M. to 1:00 P.M.

If you can come up with a good E-Days theme, you could be a winner! The final theme will be decided at the November 30th meeting. You can pick up name contest entry forms at the E-Days

meeting this Tuesday night or from Jess (jjordet@mines.edu) at anytime.

For all those organizations and people who want to help out with E-Days, there will be an E-Days meeting this Tuesday, November 16th, 7:30 P.M. at the student center.



Oredigger of the Week

Sabrina English

5'9" Senior,
Volleyball
Wiggins, CO
Wiggins High School

Colorado Mines' Sabrina English has been named the Rocky Mountain Athletic Conference's East Division Player of the Week.

English, a 5'9" senior outside hitter from Wiggins, Colorado, compiled 60 kills, a .395 hitting percentage, 54 digs and three service aces last week as Mines won two-out-of-three matches.

A Petroleum Engineering major, English helped guide the Lady Orediggers to a 7-3 record in Mines' final 10 matches.



Football Season Drawing to Close

The Orediggers hosted Western State College on Saturday, October 30th and despite a hard-fought battle, Mines came up short and fell 31-17 to the Mountaineers.

Western State scored early in the first quarter and then proceeded to build a 14-0 lead on a 79-yard punt return for a TD at the beginning of the second quarter.

Colorado Mines' (1-8, 0-7 RMAC) Andy Nord (16 carries, 51 yards) scored on a 4-yard run to pull the Orediggers to within eight early in the third quarter. However, Western answered with a 35-yard field goal and a 4-yard touchdown run to go ahead 24-6.

With five minutes left in the third, a 56-yard punt by Josh Hodsdon forced Western's punt returner back to his own 10 yard line, where he was chased back into his own endzone and tackled for a safety by Joe Massey.

Nord added another scoring

run, this time from one yard out, to cut the Mountaineers lead to 24-14. Kicker Scott Juengst added a 47-yard field goal early in the fourth for the Orediggers, but the Mountaineers scored another rushing touchdown just one minute later to close the scoring at 31-17.

Mines' Nate Jackson completed 14-of-20 passes for 109 yards but was intercepted three times. Brian Sump had three kickoff returns for 77 yards (long of 46) and four receptions for 41 yards and received *Notable Performance* recognition from the RMAC in the November 1st RMAC Football release. Matt MacRostie collected 16 tackles, Oliver Ramirez 14 and Matt Andrighetti (two sacks, -23 yards) nine to lead the Oredigger defense.

The Orediggers will travel to Chadron, Nebraska this Saturday, November 6th to play the Chadron State College Eagles in the 1999 season finale.

Mines Swimming Wrestling Season Underway

The men and women hosted Metro State last Friday night, November 5th, and enjoyed a good deal of success as the women handed the Roadrunners a 184-107 defeat at the Volk Natatorium. The men narrowly missed beating Metro, falling 149-145.

The following afternoon, the CSM women hosted the University of Nebraska-Omaha Lady Mavericks and walked away 126-111 winners.

The men and women will host Colorado College this Friday, November 12th, at 6:30 p.m. in the final home swimming & diving competition of the 1999-2000 season.

Head Coach Dan Lewis' grapplers began the 1999-2000 season last Friday, November 5th and lost 30-3 to the U.S. Air Force Academy in the Steinhauer Fieldhouse.

Despite the loss, junior Nate Mascarenas won by a 3-2 decision over his USAFA opponent and improved his season record to 1-0.

This weekend, the team will go to the University of Wyoming for a dual meet on Saturday before competing in the Cowboy Open (sponsored by the University of Wyoming) on Sunday.

Upcoming Events

Women's Basketball

Nov. 19 South Dakota Tech 6:00 pm (Home)

Men's Basketball

Nov. 13 NAL Financial 7:00 pm (Away)

Wrestling

Nov. 13 University of Wyoming 7:00 pm (Away)

Swimming & Diving

Nov. 12 Colorado College 6:30 pm (Home)

Call 303-273-3360 for ticket information

Women's Basketball

The Lady Orediggers defeated the National Women's Basketball League (NWBL) Elite team by the score of 75-67 last Saturday evening in an exhibition at Volk Gym.

In the win, senior Amy Bollinger led all scorers with 14 points. Jen Schmidt scored 12 points and Nikki Bautista 11 in the winning effort, as well.

The women will begin the regular season on Friday, November 19th when they host the Hardrockers of South Dakota Tech at 6:00 p.m. in Volk Gym.

Men's Basketball

The men will be having a scrimmage vs. NAL Financial on Saturday, November 13th at 7:00 p.m. The men will begin the regular season when they host the seventh annual ACX "Big M" Shootout on November 19th and 20th. Participating teams include Mines, Palm Beach Atlantic (West Palm Beach, Fla.), Northern Colorado and Dakota State (Madison, SD).

Miller named All-RMAC in Soccer

The Orediggers ended their season last Sunday afternoon with a 2-1 non-conference win over Colorado College in Colorado Springs. James Trask and Rolf R-Kelly scored goals in the win.

Junior Marc Miller, a First Team All-RMAC selection this season, finished the season second in the RMAC in goals per game with .72 (13 goals, 18 games) and tied for third in the RMAC with 28 total points.

CSM Sports Information Hotline: 303-273-3095

Mines Athletics Website:

www.mines.edu/Academic/athletics

Volleyball Finishes Season With Victory

The Lady Orediggers finished the 1999 season with a 3-1 victory over Fort Hays State last Saturday night in Volk Gym.

In the win, Sabrina English collected 21 kills and 22 digs while Laurie Alzheimer had 20 kills and eight digs.

Mines finished the season winning seven of its final 10

matches, and two-out-of-three last week. For her stellar efforts last week, English was named the Rocky Mountain Athletic Conference's East Division Player of the Week. A 5'9", senior outside hitter from Wiggins, Colorado, English compiled 60 kills, a .395 hitting percentage, 54 digs and three service aces last week.

\$

Help Wanted

\$

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Professor Profile

Editor's Note: This column features professors with the intention of humanizing the people we may only know as lecturers or researchers.

Marco Leon

Gene Woolsey is the director of the Operations Research Program at the Colorado School of Mines. He is a true self-made Renaissance man.

Prof. Woolsey was born and raised in Texas. He received a BA in mathematics at the University of Texas in Austin. Woolsey then earned a PhD in mechanical engineering from the University of Texas in one year.



Mines. He likes that fact that Mines is not a place where rich parents send their kids to school. "The students are here to make something out of themselves," states the operations research professor. Woolsey also feels that CSM students are down to earth and is delighted with the new president.

For the past decade, Prof. Woolsey has worked pro bono

publico for any religious group, U.S. government agency or any foreign government with which he politically agrees. He attributes this "free work" to being

brought up as Southern Presbyterian and being taught, "if you do well, you should pay back." For his pro bono work, he has been awarded the Logistics Badge (honorary) of the Israeli Air Force, the United States Army's Commander's Medal, the Outstanding Civilian Service Medal, and the Distinguished Civilian Service Medal.

Woolsey is also very involved. He is the past international president of the Institute of Management Sciences. One of the areas of research in which he participated, effectively doubled the world supplies of lithium. The professor is the editor emeritus of the Production & Inventory Management Journal with readers in 125 countries. He holds visiting and/or teaching positions at a number of other colleges and universities in three countries. Woolsey has written eight books in operations management, production scheduling, assignment and distribution, linear programming, and inventory control and engineering design using geometric programming.

Prof. Woolsey has also found time to have a family. The huge Bronco and Rockies fan just celebrated his 41st wedding anniversary. His son is a disc jockey and his daughter performs on Broadway.

Woolsey teaches the following courses: Introduction to Operations Management/Operations Research (undergraduate), Integer Programming, Economic modeling with Geometric Programming, Operations Research Projects, and a seminar in industrial psychology.

Prof. Woolsey is the first recipient of the Harold Larnder Prize for Distinguished International Achievement in Operations Research and in 1999 he was awarded the international INFORMS Award for the Teaching of OR/MS practice.

Woolsey came to CSM in 1969 with the intention of building an internationally famous program in applied operations research. This plan is now a reality, based on the Guild system of education. When Woolsey was in graduate school, he found the segregation of professors and students disturbing. At the CSM Guild, students and professors share a common workspace. The former Air Force intelligence officer sits in the middle of an office of about 3,000 square feet with 46 of his graduate students. Woolsey's intent is to be immediately available whenever his students have a question. "My aim is not just to train, which is the absorption of skills, but to educate—to promote the acquisition of new hungers for the future," says the professor. The only question he asks of his returning students is, "Are you having fun?"

"I have had more fun than anyone I know, and I want to continue to turn out a generation of students who will have as good a time doing good work as I have," says Woolsey. The professor has graduated more graduates into the profession of operations research than anyone living or dead.

Woolsey's principally interest is teaching. The professor says it best himself. "I believe that the first priority of a professor at a state university should be to educate the children of the taxpayers of the state. Further, as an operations researcher, I believe that second in importance is doing projects that provide measurable benefit, at no cost, to both the public and private sectors of the state. People often ask me why I don't charge. The answer is simple: I am already paid by the taxpayers of Colorado to teach. Last year alone, this program generated a verified benefit of \$10 million at the federal level and \$4 million at the state level."

This is Woolsey's 31st year at

OPERATIONS RESEARCH colorado school of mines GUILD

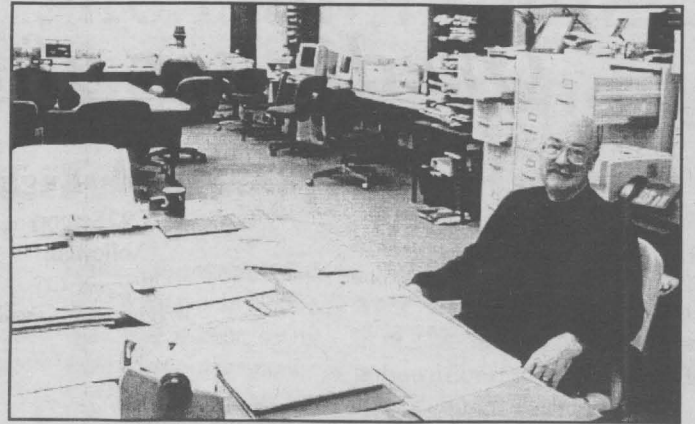
MISSION: To give students the necessary tools and exposure, to apply operations research methods to real world applications while having fun and achieving financial independence.

The Economics Department at the Colorado School of Mines is home to the most relentlessly applied operations management program in the world. The OR/OM program has existed for thirty years and has graduated over 300 master's and Ph.D. students, with a placement rate, within six months of graduation, exceeding 98%.

In order to graduate from this program, each student must do at least one applied project, for free, for a company or agency. The project must be used, and generate a verified measurable benefit to the sponsor. As of this date, the O.R. graduates have created verified savings to companies and agencies in excess of \$268-million. As ultimate verification, any student who can present a letter of verification that he or she saved a million dollars at present value in one year for their agency or enterprise is given a diamond stickpin.

Operations Research can be defined as the application of math and logic to a real world problem in such a way that the answer is seen by management to be (a) consistent with common sense, and therefore (b) worth implementing.

The Guild is made up of Dr. Woolsey and all the PhD and MS students in the O.R. program. All the students share an office with Dr. Woolsey and are encouraged to work together and share ideas.



Dr. Gene Woolsey in his cubicle

Photo by Marco Leon

The program's main objective is to educate future managers in the manufacturing and service industries and the public and private sector. To graduate every student must, at the end, be able to answer these simple questions about their project: Did you know what you were doing before you proposed to improve it? (The answer better be "Yes."); How did you know? (The answer better be that you knew because you did every step of the process under the same conditions as

the present worker bees.); Have they accepted and used your proposed, improved, process? (The answer better be "Yes."); Can you prove that you reduced cost and/or increased profits to the sponsor? (The answer better be "Yes, here it is," or the student does not graduate).

In May of 1996, 23 master's students graduated with the bottom student starting at \$48,840 and the top student starting at \$110,000.

The Guild can be found at <http://www.Mines.EDU/research/org/>.

Pro Bono Publico

Shelly Ceurvorst is presently doing her Pro Bono Publico project for Coors Brewing Company. She is examining the glass bottle manufacturing operation with respect to costs, demand, and inventory. Ceurvorst developed a network model using linear programming and a scheduling tool for optimizing production using mixed integer programming.

The scheduling model was used to model a twelve-week period earlier in the year. Actual performance during that time frame had nine job changes while the model scheduled only five. This difference would mean cost savings of \$245,735 for the year. These savings would cover the cost for investing in such a scheduling tool.



Shelly Ceurvorst hard at work

Photo by Marco Leon

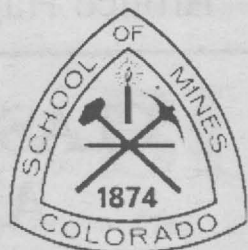
DIAMOND LIST

Verification of Savings Letters of O.R. Guild Members as of August 26, 1999

WHO	WHERE	WHEN	SAVINGS (in millions)
Les Crum	Pillsbury	1/26/78	1.5
Ruth Maurer	City of Golden	10/15/81	45.0
Tom Holloran	United Airlines	10/15/81	30.0
Rich Ratliff	American Airlines	12/9/87	2.5
Craig Murphy	Covia	11/1/88	29.0
Dave Baker	Hughes	7/2/89	1.5
Tom Wilger	Coors Brewing	7/29/93	1.0
Art Bertanzetti	Coors Brewing	12/13/93	2.0
Michael Stehlik	U.S. Army	12/19/94	13.0
Scott Healy	Sabre	1/16/96	1.0
Al Sweetser	Public Service	7/18/96	2.2
Mark Grabau & Dave Ciernoczolowski	Coors Brewing	1/20/97	1.9
Ross Snare & Rodney Roederer	U.S. Army	2/11/97	10.0
Dick Hewitt	U.S. West	11/11/97	58.9
James Knowles	U.S. Army	6/4/98	50.0
Patrick Dubois	U.S. Army	6/11/98	15.0
Andy Lathrop	Jeppesen	11/13/98	1.0
Bill Tarentino	Jeppesen	11/24/98	1.2
Randy Zimmerman & Jeff Huisinigh	U.S. Army	7/29/99	1.0
TOTAL:			268

The Oredigger

A Superior Education in Applied Science and Engineering



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TONIC QUEEN: THE TURKEY CAME EARLY THIS YEAR

So I figured that since we're ending the newspaper early (who ever hear of a paper doing that anyway) I'd hurry up and give out my long awaited Thanksgiving issue. I'm sure you've all been on your tippy-toes in anticipation. I know I have. This year we all have a lot to be thankful for, the writing staff especially. As I mentioned, we will not be finishing the year with the paper. Yup. That's right, this week, next week and then, bye bye folks. Anyway, here at Mines we also have a bunch of good will and fortune. How 'bout a hand for our new CSM President. He really hasn't made any classic blunders or caused any tragic failures. As far as we know we still have the school budget and the Celebration of Mines. What else do we need so long as the technology fee keeps serving up vastly different and up-to-date computers for all?

People are smiling more and looking at the ground less, some sources say, although others beg to differ. Ooh and every Friday it seems we have a booth giving out a good message and Coke products in search of meaningful religious conversation. Yet, if it were me in charge of that whole thing, I think I would target not those who are completely turned off to Christianity, but maybe those who have some inclination toward it. Talk about you're up-hill battle. Let's convert those who don't believe in anything, that'll get attendance up. Sometimes I wish that I didn't believe in God just so I could go talk to some of those people. I love to argue. I'm sure they wouldn't mind either way. Lucky for them the weather's been nice. I'd feel sorry for them, handing out cold pop on a freezing yet sunny Golden day. But don't get me wrong. I'm all for anybody trying to get the Mines population excited about something.

You know what's strange, I just came back from a conference pertaining to what I won't say to protect my identity (ha!) and out of all the schools represented, we were really some of the LEAST nerdy people there. Let me tell you, some of those calculator freaks that you never hear about came from

CSU, CU and Penn State. Whoa! I was pretty impressed. Hey now, that ties right back into the whole Thanksgiving theme. Let's be thankful that we all are really not as nerdy as the Princeton College board thinks we are. I don't know about you, but when I start to do calculus on a Friday night, I have friends that will tear me away from my desk, no matter my protests, and take me to Woody's or something.

There's another reason to be thankful: there's no other place where you'll meet the people you meet at Mines. Mines is swell, isn't it Wally? You know, now that I mention it, Denver is pretty swell this year too. I mean

we just voted in a bill or whatever that will increase the amount of road construction for like the next 10 years. How wonderful is that? I mean us Golden-ers are going to be pros at handling road construction. There's another thing to be thankful for, the road construction in Golden. Here we are in a school full of engineers and the lovely little town of Golden was nice

enough not to ask any of us about our opinions on the road construction. They could have made it into a good EPICS project, but you know we'd rather deal with some other idiot's, I mean, nice person's plans for Old Golden road. And see, it all pays off in the long run. We'll learn how to deal with big pot holes, six inch road drops and bulldozers in traffic at 5 p.m.. This will better prepare us for the future of I-25. Isn't that nice?

Really, I am thankful for a whole lot this year. Any we all should be in our own personal way. So when Thanksgiving does come around, long after the end of this semester's paper session, be thankful for what you have. Tell other people that you appreciate them. Be a regular old loving human for awhile. We must overcome the Friday-night-math-pounding-nerdy-ness for a few days to thank those around us for helping us to become who we are.

Talk to you next week, as that will be our last edition of the *Oredigger* this semester. And no, I'm really not bothered by this slight change in the *Oredigger* at all, really.
Tonic Queen



CSM is not responsible for any material that is published on opinions, hairstyles and/or punk rock bands within the Tonic Queen column; nor is it responsible for any use that is made of personal data reached via links from the editorial page. Please maintain your own links to maintain a healthy social life.

CSM COSTS TOO MUCH CAN MINES STILL COMPETE?

As an out-of-state student at the the Colorado School of Mines, I pay around \$15,000 dollars a year to the school. I recently had an incredibly bright friend decide to go to Georgia Tech rather than here because of the high expense for out-of-state students and the virtual impossibility of becoming a resident without taking a year off of school. (*U.S. News and World Report* ranked Georgia Tech 40, while Mines did not make the top 50). Georgia Tech offered him literally six times the amount of grants Mines did and he will actually be able to become a resident of Georgia before he graduates.

This is my third year here so I have long since given up on becoming a resident of the state. Even though my father has owned a house in the state for longer than I have been alive, it would truly involve a great deal of hardship and luck to become a resident. As the system stands, basically one must forgo any kind of parental support for one year to become a resident.

For me this would mean giving up my car owned and insured with my parents, getting only the school's health insurance which would leave me uninsured when not attending CSM, and figuring out where I was going to come up with \$24,000 (housing, books, etc.) without my parents' help. I like problem solving, but throw me a bone here. The reality is, the only people that I know that have been able to squeak by the myriad of requirements without having their parents quit their jobs and move to Denver, are ones that lie outrageously on their residency documents.

"Lie" is a strong word, usually not found in journalism because of the incredibly negative connotations. Still, among out-of-state students that know that their tuition is paying 115% of the cost of their education the word "lie" is used often in this context.

While the state government sets requirements for residency, this school must be concerned with the lack of competitiveness, nationally and internationally due to the state's policy. Because I am at Mines, I

realize how great a school this is, but if my family were not from Colorado I would have laughed at my one friend that considered going here senior year. (He did not end up here because of the outrageous expense compared with the deal he was offered from Northwestern). Empirically, high cost compared to other engineering schools is discouraging excellent students from coming here.

What makes this situation worse is that the schools' great reputation among high school seniors, college counselors, and guidance counselors ends at the state line. It seemed strange to me that this school does not have a high profile outside of the state knowing about this institutions high standing in some industries. However, looking at the *Princeton Review* articles about Mines and comparing the amount of



aid the school gives to other universities and colleges I personally applied to, I wonder what I was thinking coming here. I could have gone to schools with better national rankings, better facilities, better student to teacher ratios, and happier student bodies for far less money, if any, money.

Luckily for me, I had other sources than the ones most students have when choosing a college. As things stand now, high school seniors (in-state, out-of-state, and internationally) have difficulty seeing beyond the School of Mines' not-so-rave reviews and the high cost to come here. Mines must change its national image and improve its competitiveness if it wants to stay an elite engineering school for the world.

John McLaughlin, Editor-In-Chief

Letter to the Editor:

Where to begin?

First off, I understand the dreary mentality of the average Mines student, and I commend the papers' attempt to lift this veil of unhappiness. However, taking the color away from an already gloomy paper is not going to help your situation. A straight black and white paper has the appeal of senior design.

Second, the use of grammar in your paper is deplorable, it is an ongoing insult aimed at the students and faculty of this institution. I have just finished reading Issue 4; there are more than seventy spelling errors, and near double that number of grammatical errors. This number isn't bad for an average paper, but one that is a mere

eight pages long, more than half of which is covered by ads and pictures?

Another point, preaching diversity

at this school has the same effect as talking to the [Ku] Klux Klan. As Indira Gandhi once said, "Mankind will endure when the world appreciates the logic of diversity." Diversity is a topic touched on in many forms by your paper, yet the ad neaseum repet[i]tiveness of the paper shows otherwise.

I have a suggestion for a better paper. Print your ads to keep it afloat, and lots of pictures. Stop wasting the students' money.

[Editor: three errors in four paragraphs]
BQ Jones

The Return of
BQ Jones

BQ Jones is the infamous pseudonym used when the former staff is too afraid to write their real names

Miner Notes

APO

APO meets in Coolbaugh 209 on Tuesdays at 6:15 PM. For more information, contact Ian Nickerson at inickers@mines.edu

Bridge Club

If you would like to play cards and want something more interesting than hearts or spades, why not try bridge? The CSM Bridge Club meets every Tuesday at 7 PM in the Coolbaugh atrium. Player of all skill levels are welcome. Don't know how to play? We gladly offer lessons for new players.

Board of Publications

If you have complaints regarding any of the three student publications at the Colorado School of Mines, please feel free to contact a member of the board of publications. You can email the chair at clanders@mines.edu or the ASCSM representative at wtrainor@mines.edu or call (303) 273-3784 and leave a message for Whitney Trainor.

Campus Crusade for Christ

All are welcome to join us, for our weekly 737 meeting. It is a place to hang out with friends and talk about life. The meeting is held every Thursday at 7:37 pm and is located at First Baptist Church of Golden on the corner of 19th and Washington. Afterwards, we will be going to the Golden Grind for food and fellowship.

Catholic Newman Group

Anyone is welcome! A discussion group for contemporary issues. Every Tuesday night at 8:30 pm, 2nd floor of the Green Center in the Ted Adams Room. Contact Matt at 303-271-0654 or mlengeri@mines.edu for more information.

Circle K

Come find out about the world's largest student run service organization. Meetings are held Tuesdays, 6 PM at the Student Center in room 236. For more information contact clapok@mines.edu

CSM Artist-Scholar Series

Dr. Rad Byerly, former chief of staff of the U.S. House Science and Technology Committee, will be giving a talk on "How Should Society Approach Global Climate Change?" Thursday, November 18, 1999, at noon. Place to be announced.

CSM Concert Choir

The CSM Choir is open to everyone!! Come sing jazz, classical, and contemporary pieces with us every Thursday from 4-6 pm in CO 209. Questions call Matt at 303-271-0654 or email mlengeri@mines.edu.

E-Days

E-Days 2000 is coming. As your organization begins to plan its new year, start planning to help with E-Days 2000!!! Meetings will be held on the following dates to help organizations figure out how and what they can do! November 16, January 11, February 8, March 7, March 28, and April 4. Questions? Contact Jessica Jordet 303-273-3908 or jjordet@mines.edu

FCA

The Fellowship of Christian Athletes meets Wednesdays at 7:30 PM in the Projection Room on the second floor of Volk Gymnasium. All are welcome: Christians, athletes, both, or neither. For more information email fbuckner@mines.edu.

FCC

Fellowship of Christian Cowboys (and girls), the 1996-97 New Club of the Year, meets weekly on Thursday at 6 information email derjacks@mines.edu or visit the website. http://www.mines.edu/Stu_life/organ/fcc.

GLBE

Gay, Lesbian, Bisexual Engineers meetings held twice monthly with social events throughout the month. For more information contact glbe@mines.edu

Karate Club

CSM Karate Club has a new schedule! Monday and Wednesday from 6:30-8:00 PM in the Student Center Ballrooms.

Karate is a tremendous way to stay in great physical shape, tune mental concentration skills and gain confidence about personal security. Spectators and new students are welcome anytime. For more information call Amir at 303-216-2183 or email achaghaj@mines.edu.

Kayak Club

Kayak Club holds pool sessions every Monday from 7:30-9:30 PM. Everyone is welcome from beginners to advanced. For additional information, contact Jason at (303) 273-0507 or email jlegore@mines.edu.

Kendo Club

The CSM Kendo Club will meet Wednesday evenings, 7-9pm, in the Student Center ballrooms.

Kendo is the ancient art of Japanese fencing that evolved from the life and practice the the Samurai warrior. New students and spectators are welcome anytime. For more information call Sensei King at 303-795-9040 or email fourrex@aol.com.

LDSSA

All students are invited to enjoy lunch for \$1 and a guest speaker at the Latter Day Saint Student Association's Friday Forum. Every Friday at noon at 1212 Arapahoe Street. Email aolson@mines.edu or jgibbs@mines.edu for more information.

SCA

Fighter Practice: Tuesdays 7-9 PM in the Field House. Questions? Contact David at (303) 215-6243 or dclement@mines.edu.

Ski Team

Ski Team movie night November 12th. Come see the phat new flick 'Realm' by Teton Gravity Research. Tickets are \$5. Get movie tickets along with raffle tickets from a team member. Drylands are Monday-Thursday 5:15 pm at the Rock on Kafadar Commons.



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Mesquite Texas BBQ

Big Screen TV Bronco Happy Hour

Society of Women Engineers

The next SWE meeting is on November 10th in Coolbaugh 209 at noon. LTV Steel will be there to us to talk about the differences in the way men and women communicate. For more info, email aama@mines.edu

The Ultimate Frisbee Organization

Practices on Kafadar commons every Tuesday and Wednesday at 4-5:30 PM. All are welcome to come practice with us for competitive play against other schools. Also, official UFO CSM frisbees are available for \$8. For more information contact Steve at (303) 271-9972 or sgrigel@mines.edu.

Women's Ultimate Frisbee Team

Want to have fun, make friends, and get in shape? Come be a part of Mines first ever Women's Ultimate Frisbee Team. No experience is required. First meeting Thursday, September 9, at 5:30 pm at Kafadar Commons. For more information call Julie West at 303-278-7431.

Placing a Miner Note

The easiest way for the student body to see your upcoming meeting or event is to place a Miner Note.

Please submit all Miner Notes by email or hard copy the Friday before publication. There is no charge for the service.

CLASSIFIED ADS

Bartending JOBS are in Demand. The fun jobs. Earn \$15-30/hr. Job placement assistance. Call Now!!! \$199 Back-to-School Special ends soon. Call 303-758-5000 or 1-800-BARTEND

Help Wanted. The CSM Phonathon has openings for callers. Evening hours, on campus, casual atmosphere. Starting pay is \$6.50/hr. for more information, call John at 303-273-3162.

Browse icpt.com WIN a FREE trip for Springbreak "2000". ALL destinations offered. Trip Participants, Student Orgs & Campus Sales Reps wanted. Fabulous parties, hotels & prices. For reservations or Rep registration. Call Inter-Campus Programs 800-327-6013.

Dog Lover. Need housesitter mid-November to care for two rowdy dogs and one placid cat. \$20 per day contact Virginia at (303) 237-1448.

For Sale. Alpine box with 2-12 inch woofers \$60. Clairon car cd player (1 year old) with detachable face \$100. 40 watt amp \$10. Button down six Yakima ski rack attachment \$20. Extra large outdoor research gortex gators \$10. Roller blades and Ice hockey skates size 12 each \$40. Contact John at 303-679-0849 or bacan2@hotmail.com.

Spring Break 2000 The Mazatlan Millenium party is here and it's HOT! RT-Air, 7 nights hotel, transfers, FREE drinks and parties. Don't miss this one, space is selling fast. Call for brochures and info. 1-800-461-4607. www.paradisetours.com

Mazatlan 2000 from \$429. 14 FREE meal, 23 Hours of FREE Drinks, \$30 EARLY BIRD DISCOUNT, \$100 off Trip in 2001!!! CALL FREE 1-800-244-4463, www.collegetours.com

Please submit all classified adds the Friday before publication. Cost \$3.00 for 25 words. Multiple week notices are available. Space is on a first-come first-served basis.

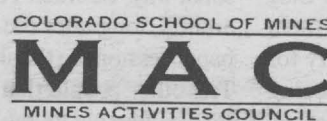
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Friday Afternoon Club

November 5	Mike Siegel
November 19	Michael Loftus
December 3	Donald Barnhart
December 9	Owen Smith